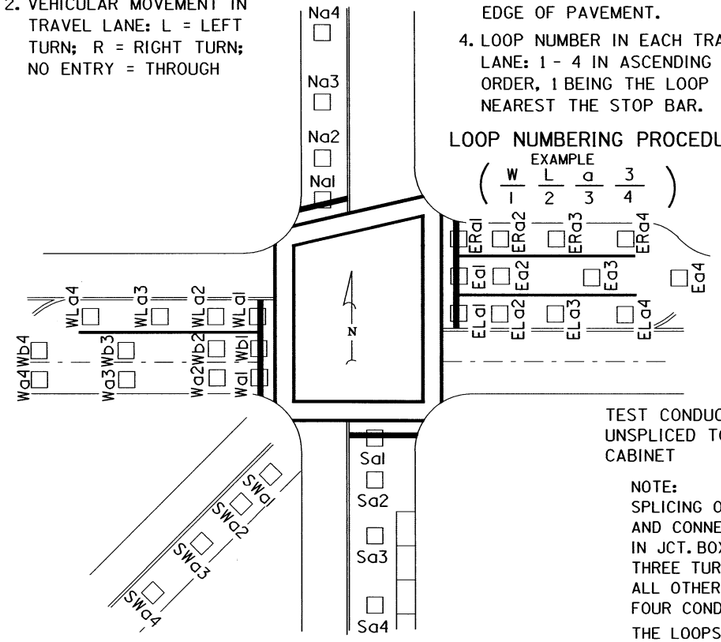
POSITION

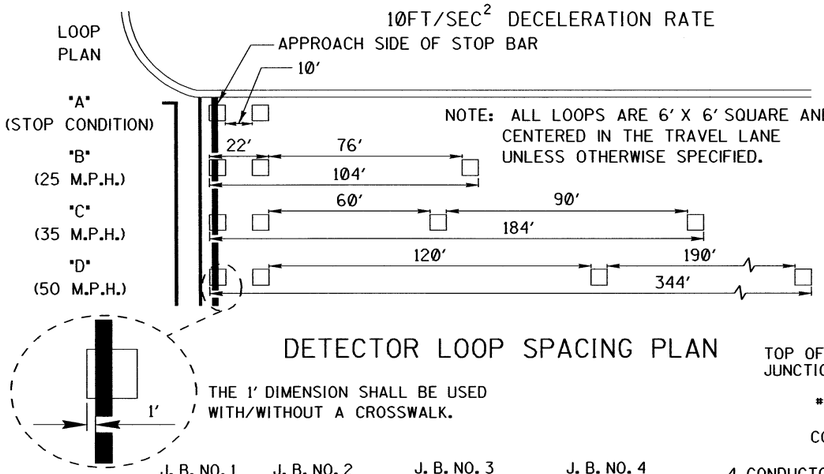
1. MAGNETIC ORIENTATION OF APPROACHING TRAVEL LANE. N = NORTH, S = SOUTH, ETC.
2. VEHICULAR MOVEMENT IN TRAVEL LANE: L = LEFT TURN; R = RIGHT TURN; NO ENTRY = THROUGH
3. LANE DESIGNATION FOR EACH MOVEMENT: a-z IN ASCENDING ORDER, a BEING NEAREST THE CURB OR EDGE OF PAVEMENT.
4. LOOP NUMBER IN EACH TRAVEL LANE: 1 - 4 IN ASCENDING ORDER, 1 BEING THE LOOP NEAREST THE STOP BAR.

LOOP NUMBERING PROCEDURE

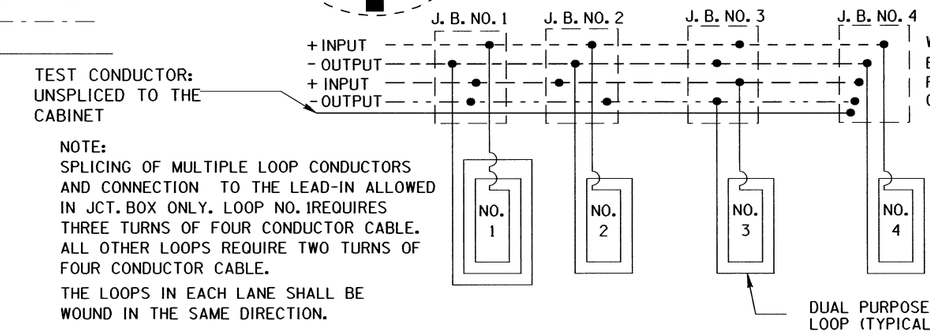
EXAMPLE (W/1 L/2 a/3 3/4)



LOOP NUMBERING SYSTEM



DETECTOR LOOP SPACING PLAN

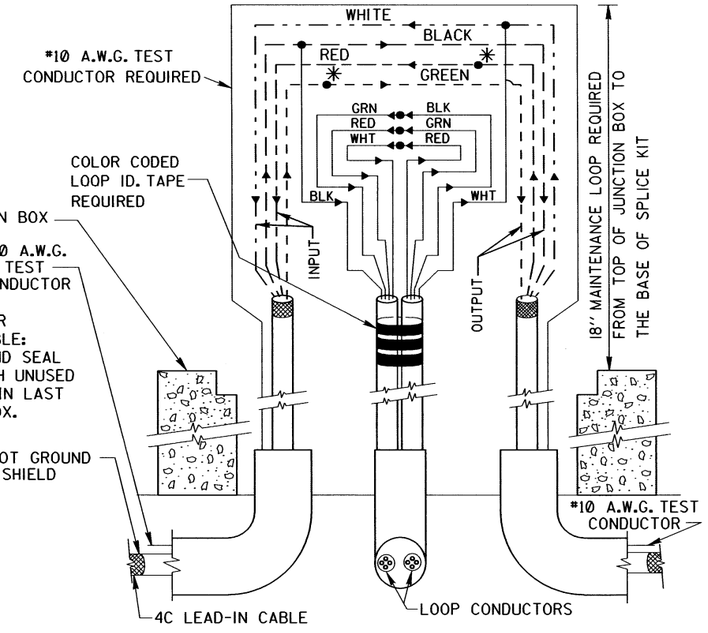


NOTE:
SPLICING OF MULTIPLE LOOP CONDUCTORS AND CONNECTION TO THE LEAD-IN ALLOWED IN JCT. BOX ONLY. LOOP NO. 1 REQUIRES THREE TURNS OF FOUR CONDUCTOR CABLE. ALL OTHER LOOPS REQUIRE TWO TURNS OF FOUR CONDUCTOR CABLE.

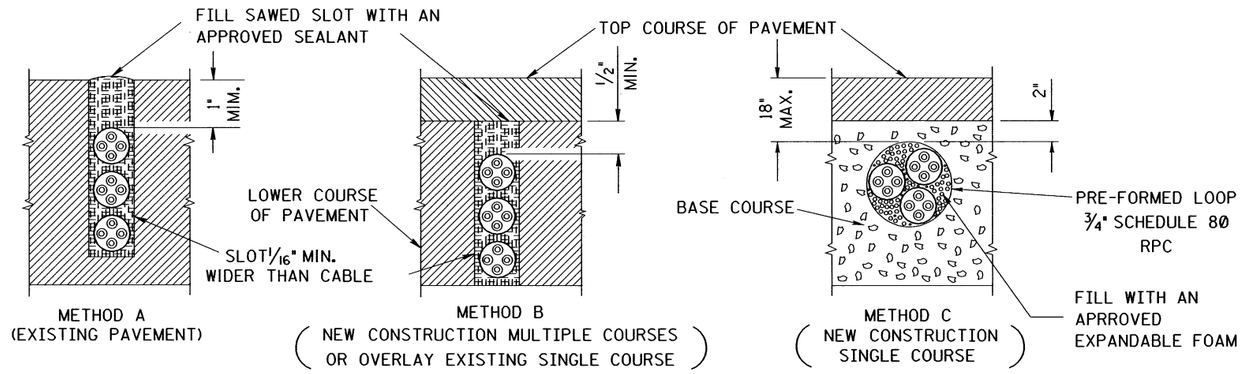
THE LOOPS IN EACH LANE SHALL BE WOUND IN THE SAME DIRECTION.

LOOP SYSTEM AND JUNCTION BOX WIRING DIAGRAM

NOTES:
1. ALL CONDUCTOR SPLICES SHALL BE SOLDERED AND WATERPROOFED WITH AN APPROVED SPLICE KIT.
2. THE FOIL SHIELD SHALL BE INSULATED TO PREVENT GROUNDING AT THE JUNCTION BOX.
3. ✳SPLICE DUAL PURPOSE LOOPS TO THE RED AND GREEN CONDUCTORS.

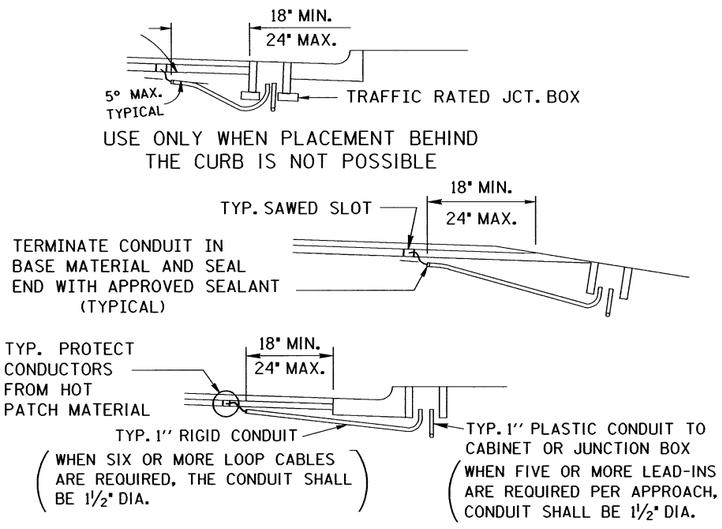


LOOP SPLICE DETAIL AT JUNCTION BOX



LOOP CONDUCTOR INSTALLATION

NOTES:
1. METHOD "B" SHALL BE USED WHEN EXISTING PAVEMENT IS OVERLAID.
2. METHOD "B" IS DESIRABLE FOR APPLICABLE NEW CONSTRUCTION.
3. METHOD "C" MAY BE USED ONLY WITH PRE-FORMED LOOPS.
4. HYDRO CLEAN AND AIR DRY SLOTS AFTER CUTTING AND PRIOR TO CABLE INSTALLATION.
5. BED LOOP CONDUCTORS IN SEALANT FOR TOTAL ENCAPSULATION.
6. SEAT LOOP CONDUCTORS IN SLOT WITH A BLUNT INSTRUMENT.



JUNCTION BOX AND CONDUIT LOCATION

LANE NO.	TAPE COLOR
1	BLACK
2	WHITE
3	RED
4	GREEN
5	ORANGE
6	BLUE

IN ASCENDING ORDER - BLACK SHALL BE USED FOR THE LANE NEAREST THE CURB OR EDGE OF PAVEMENT.

EXAMPLE:
CONDUCTORS FOR LOOP 1 LANE 1 REQUIRE 1 BAND OF BLACK TAPE.
CONDUCTORS FOR LOOP 3 LANE 4 REQUIRE 3 BANDS OF GREEN TAPE.

COLOR CODED LOOP IDENTIFICATION SYSTEM

REVISIONS

NO.	DATE	BY	NO.	DATE	BY	NO.	DATE	BY
1	12-93	HEB						
2	12-94	HEB						
3	03-96	HEB						
4	07-03	HEB						
5	08-06	HEB						

SCALES SHOWN ARE FOR 11" X 17" PRINTS ONLY

CADD FILE NAME: i5__0806.std

DRAWING ORIG. DATE: DECEMBER, 1994

IDAHO TRANSPORTATION DEPARTMENT

BOISE IDAHO

ASSISTANT CHIEF ENGINEER (DEVELOPMENT)

CHIEF ENGINEER

STANDARD DRAWING

LOOP DETECTORS

10FT/SEC² DECELERATION RATE

English

STANDARD DRAWING NO.

I-5

SHEET 1 OF 1

PROFESSIONAL ENGINEER REGISTERED Carl D. Main 6260 8/7/06 STATE OF IDAHO CARL D. MAIN